Performance Data Sheet

AWG5530WXN

General Information

Model	AWG5530WXN	**Refrigerant**	R-407C/R-22
Test Condition	ARI (R407C)	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h							
	Watts		274					
	Amps	8.93	8.33					
	Lb/h	2.84						
-10	Btu/h	1460	1930	1340				
	Watts	374	664	812				
	Amps	9.06	8.48	8.25				
	Lb/h	58.2	34.9	15.6				
-5	Btu/h	4440	5060	4540	3420			
	Watts	698	989	1140	1190			
	Amps	9.21	8.66	8.45	8.48			
	Lb/h	105	83.2	65.7	50.9			
0	Btu/h	7100	7880	7430	6290	5010		
	Watts	961	1250	1410	1460	1470		
	Amps	9.40	8.88	8.70	8.74	8.91		
	Lb/h	144	124	108	94.5	82.7		
5	Btu/h	9520	10400	10100	8900	7530		
	Watts	1170	1470	1620	1690	1700		
	Amps	9.60	9.12	8.97	9.05	9.25		
	Lb/h	178	159	144	132	121		
10	Btu/h	11700	12800	12500	11300	9850	8610	8150
	Watts	1330	1630	1800	1870	1890	1920	1980
	Amps	9.83	9.39	9.29	9.40	9.63	9.86	9.99
	Lb/h	209	191	177	165	154	144	133
15	Btu/h	13900	15100	14800	13600	12100	10600	9900
	Watts	1450	1760	1940	2020	2060	2090	2170
	Amps	10.1	9.68	9.63	9.79	10.1	10.3	10.5
	Lb/h	238	221	207	195	185	175	164
20	Btu/h	15900	17300	17100	15900	14200	12600	11600
	Watts	1540	1860	2050	2140	2190	2240	2330
	Amps	10.3	9.99	9.99	10.2	10.5	10.8	11.0
	Lb/h	268	250	237	225	215	204	193

25	Btu/h	18000	19500	19400	18100	16400	14500	13300
	Watts	1600	1930	2130	2240	2310	2370	2480
	Amps	10.6	10.3	10.4	10.6	11.0	11.4	11.6
	Lb/h	300	282	268	256	245	234	222
30	Btu/h	20200	21800	21700	20500	18600	16600	15000
	Watts	1650	1990	2200	2330	2410	2490	2630
	Amps	10.8	10.7	10.8	11.1	11.5	11.9	12.2
	Lb/h	336	318	303	290	278	266	253
35	Btu/h	22500	24300	24300	23000	21000	18800	17000
	Watts	1680	2040	2260	2410	2510	2610	2770
	Amps	11.1	11.0	11.2	11.6	12.1	12.5	12.9
	Lb/h	378	359	343	329	316	303	288
40	Btu/h	25100	27000	27000	25700	23600	21200	19100
	Watts	1710	2080	2320	2490	2610	2740	2920
	Amps	11.4	11.3	11.6	12.1	12.7	13.2	13.6
	Lb/h	428	408	391	375	361	346	329
45	Btu/h	27900	30000	30100	28700	26500	23900	21500
	Watts	1730	2130	2390	2570	2720	2870	3080
	Amps	11.6	11.7	12.1	12.6	13.2	13.9	14.3
	Lb/h	488	466	447	430	413	396	378
50	Btu/h	31200	33300	33400	32000	29700	26900	24200
	Watts	1770	2180	2470	2680	2850	3020	3260
	Amps	11.9	12.0	12.5	13.1	13.9	14.5	15.1
	Lb/h	559	535	514	495	476	457	436
55	Btu/h	34800	37100	37300	35800	33300	30400	27400
	Watts	1820	2260	2570	2800	2990	3200	3460
	Amps	12.1	12.4	12.9	13.7	14.5	15.3	15.9
	Lb/h	644	618	595	573	551	529	505

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	-1.082213E+05	-1.178538E+04	3.882394E+01	5.702200E+02
C2	-3.280916E+02	5.256555E+01	-5.077662E-02	4.341132E+00
C3	3.304298E+03	3.286086E+02	-7.794659E-01	-9.622712E+00
C4	-4.653333E+00	-1.370727E+00	-5.806066E-04	-4.836364E-02
C5	1.700752E+01	-1.859335E-01	1.478166E-03	4.507770E-02
C6	-3.050825E+01	-2.711978E+00	6.598478E-03	6.833334E-02
C7	9.048609E-02	9.305051E-03	-4.860896E-06	2.496037E-03
C8	-4.431818E-03	3.628788E-03	1.293938E-05	-6.984848E-04
C9	-8.237922E-02	1.443290E-03	-4.458896E-06	-1.047619E-04
C10	9.030000E-02	7.450000E-03	-1.816665E-05	-1.833333E-04

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature